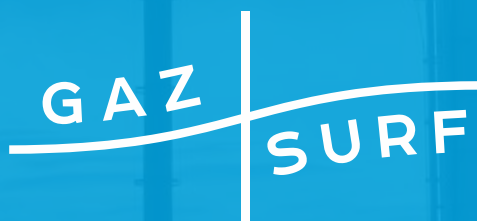


[WWW.GAZSURF.COM](http://WWW.GAZSURF.COM)



**GAZSURF**

ADVANCED GAS PROCESSING TECHNOLOGIES



## About Us

Gazsurf is an integrated engineering company that implements hydrocarbon and industrial gas processing projects.

Our team consists of highly qualified engineering professionals with considerable practical skill and experience of engineering and construction of processing plants/production facilities in Russia and abroad.

## Our Solutions

- Conceptual engineering
- Gas processing plants and air separation plants engineering
- Procurement & delivery
- Plant modernization & performance improvement
- Service & maintenance programs

We are an authorized distributor and approved supplier of General Electric (GE), Ingersoll Rand, QB Johnson Manufacturing Inc., and Suzhou Oxygen Plant Co., Ltd. in Russia and across the CIS countries



## OUR PROJECTS



## Equipment and Configuration

We give you the best possible choice of different configuration of oil & gas equipment and compressors, single unit equipment and/or separate assembly, as well as integrated facilities development.

We developed and implemented proprietary solution of gas processing packaged plants. This solution is best for engineering and construction of gas processing plant of different scale: small size complex gas treatment unit, integrated gas treatment plant etc., delivering high quality liquid hydrocarbon (90+ %) and wide range of product.

## Standards and Quality

Our equipment complies with national quality standards; we issue national certificates, authorizations and approvals (ISO 9001:2000, ASME).

# Ken-Sary Gas Processing Facility

<b>Mission</b>	Oil-associated gas processing 150 million Nm <sup>3</sup> per year
<b>Parameters Achieved</b>	Natural gas liquids, max 50,000 tons per year Dry stripped gas, max 120 million Nm <sup>3</sup> per year
<b>Location</b>	Arystanovskoe field, Republic of Kazakhstan
<b>Customer</b>	Korean National Oil Corporation
<b>Solutions Implemented</b>	Design development Technical writing Procurement and delivery Site supervision Start-up and commissioning Maintenance service
<b>Year</b>	2014







EPC Contract  
Completed in 18 months



# Kenlyk Associated Petroleum Gas Advanced Processing Plant

<b>Mission</b>	Associated petroleum gas processing 120 million Nm <sup>3</sup> per year
<b>Parameters Achieved</b>	Technical propane butane mix, max 40,000 tons per year Stable gas condensate, max 10,000 tons per year Dry stripped gas, max 95 million Nm <sup>3</sup> per year
<b>Location</b>	Kenlyk field, Republic of Kazakhstan
<b>Customer</b>	South-Oil LLP, Southern Kazakhstan Oil Company
<b>Solutions Implemented</b>	Design development Technical writing Procurement and delivery Site supervision Start-up and commissioning Maintenance service
<b>Year</b>	2012







Associated Petroleum Gas  
Advanced Processing

Technical propane  
butane mix  
Max 40,000 tons per year



# Ethane Cryogenic Plant

## Minnibaevskiy Gas Processing Plant

Mission	Plant performance improvement
Parameters Achieved	Capacity increased 41,500 Nm <sup>3</sup> /h to 54,000 Nm <sup>3</sup> /h Ethane output rate increased 2,948 kg/h to 3,836 kg/h
Location	Republic of Tatarstan, Russia
Customer	Tatneft PJSC
Solutions Implemented	Design development Technical writing Procurement and delivery Site supervision Start-up and commissioning
Year	2015







Capacity Increased 30%

The sole ethane  
cryogenic plant in Russia



# Hydrogen Sulfide Removal Unit Minnibaevskiy Gas Processing Plant

<b>Mission</b>	Absorber towers performance improvement
<b>Parameters Achieved</b>	Gas resistance reduced from 0,5 to 0,15 kgf/cm <sup>2</sup> Gas output rate increased from 50,000 to 65,000 m <sup>3</sup> /h Hydrogen sulfide content reduced to max 10 ppm
<b>Location</b>	Republic of Tatarstan, Russia
<b>Customer</b>	Tatneft PJSC
<b>Solutions Implemented</b>	Design development Technical writing Procurement and delivery Installation and assembly Acceptance tests
<b>Year</b>	2017



# Gas Fractionation Unit

## Minnibaevskiy Gas Processing Plant

<b>Mission</b>	GFU-2 tower performance improvement
<b>Parameters Achieved</b>	Unit output rate increased to max 8 000 kg/h or 55% Isobutane quality class improved to Premium Normal butane quality class improved to Premium
<b>Location</b>	Republic of Tatarstan, Russia
<b>Customer</b>	Tatneft PJSC
<b>Solutions Implemented</b>	Design development Technical writing Procurement and delivery Installation and assembly Acceptance tests
<b>Year</b>	2017





# LUKOIL-Permnefteorgsintez LLC

## LUKOIL Oil Company, Perm Branch

<b>Mission</b>	Wet exhaust regeneration gas drying system Glycol dehydration unit
<b>Location</b>	Perm, Russia
<b>Customer</b>	LUKOIL-Permnefteorgsintez LLC
<b>Solutions Implemented</b>	Design and survey Production and delivery Installation and assembly Start-up and commissioning
<b>Year</b>	2018





EPC Contract

Glycol  
Dehydration Unit



# Booster Compressor Unit

## NIS Gazprom Neft

<b>Mission</b>	Associated petroleum gas (52% CO <sub>2</sub> ) utilization
<b>Parameters Achieved</b>	Total capacity 2,084 Nm <sup>3</sup> /h Delivery, installation, start-up, and commissioning Handling strict deadlines of 12 days
<b>Location</b>	Rusanda field, Republic of Serbia
<b>Customer</b>	NIS Gazprom Neft
<b>Solutions Implemented</b>	Design development Technical writing Procurement and delivery Site supervision Start-up and commissioning Maintenance service
<b>Year</b>	2014



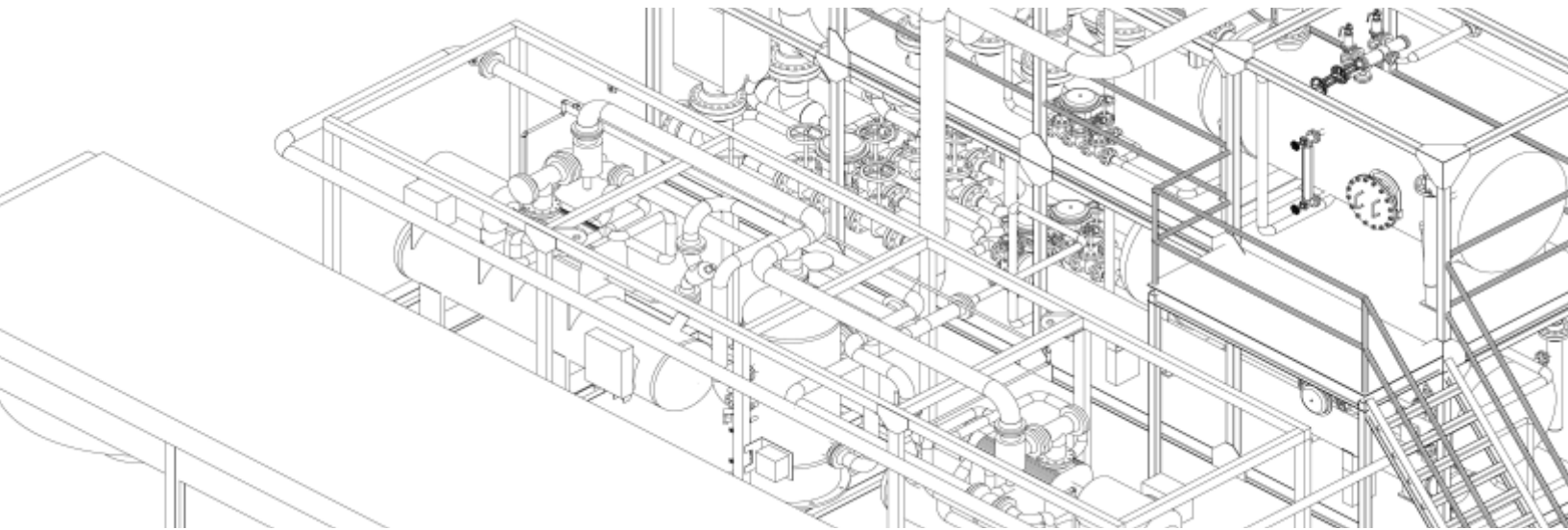




Delivery and start-up  
in strict deadlines  
of 12 days



# ENGINEERING AND DESIGN





## Engineering and Design

We provide engineering and design services in all stages of construction and/or modernization of gas processing, associated petroleum gas recovery, liquid natural gas (LNG), and air separation plants.

- Feasibility study and assessment
- Pre-feasibility reporting
- Business plan development
- Engineering concept development

- General engineering
- Project evaluation
- Design development & review
- Quality revalidation
- Technical writing

- Performing as customer's agent
- Technical auditing
- State expert assessment board support & assistance

## Our Advantages

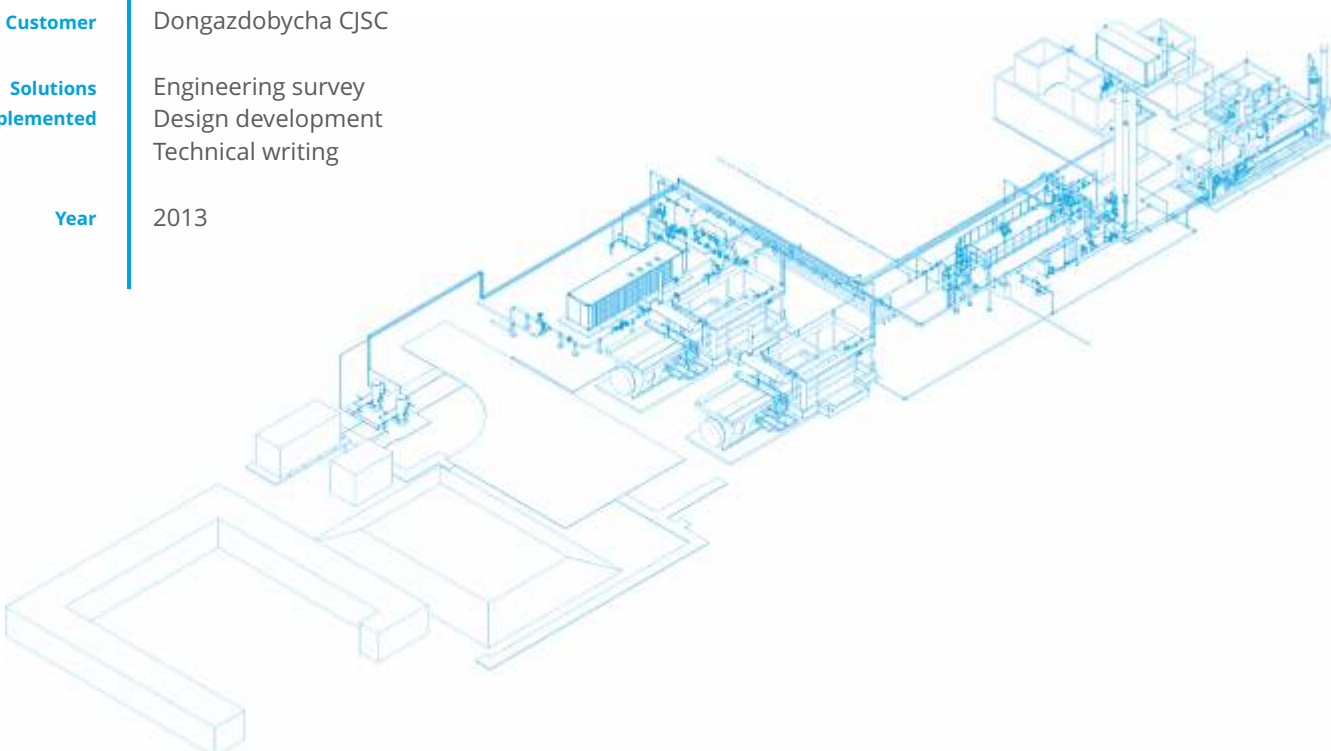
Our engineering and design services development field experience ensures implementation of up-to-date and highly-effective engineering solutions. Our team of highly qualified engineers guarantees top-level of health, safety, security and environment, as well as equipment quality and energy performance.

We are a member of self-regulatory organization (SRO), and we are qualified to perform safe works during permanent buildings and facilities construction, but excluding nuclear power facilities.

# Complex Gas Treating Unit

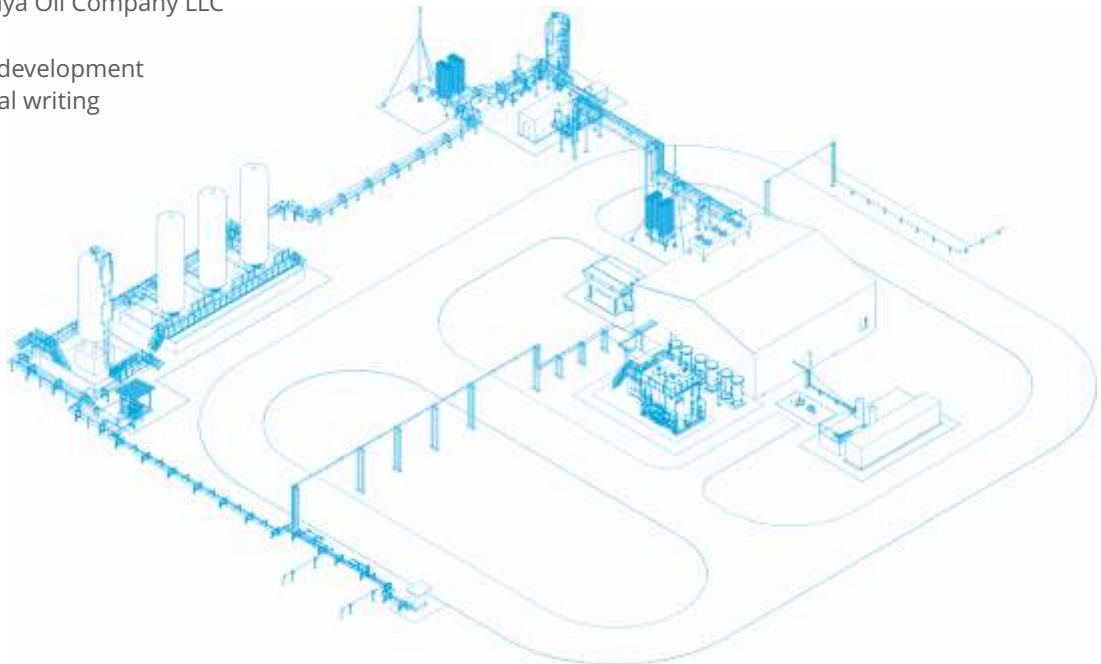
## Markovskiy Field, Rostov Region

Mission	Unit development
Estimated Capacity	600,000 m <sup>3</sup> per day
Location	Rostov Region, Russia
Customer	Dongazdobycha CJSC
Solutions Implemented	Engineering survey Design development Technical writing
Year	2013



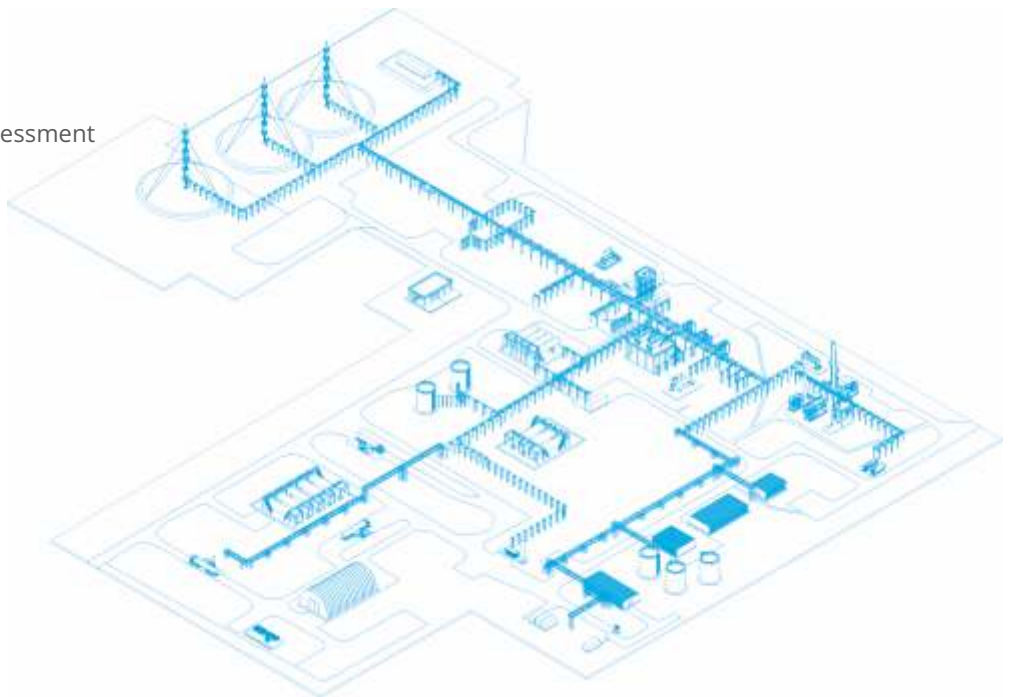
# External Gas Pipeline System Automated Mud Logging Unit LNG Facility

<b>Mission</b>	Unit development
<b>Estimated Capacity</b>	16,800 tons per year
<b>Location</b>	Anivsky District, Sakhalin Region, Russia
<b>Customer</b>	Kirinskaya Oil Company LLC
<b>Solutions Implemented</b>	Design development Technical writing
<b>Year</b>	2013



# Sour Gas Treating and Processing Unit East-Makarovskoye and Dobrynskoye Fields

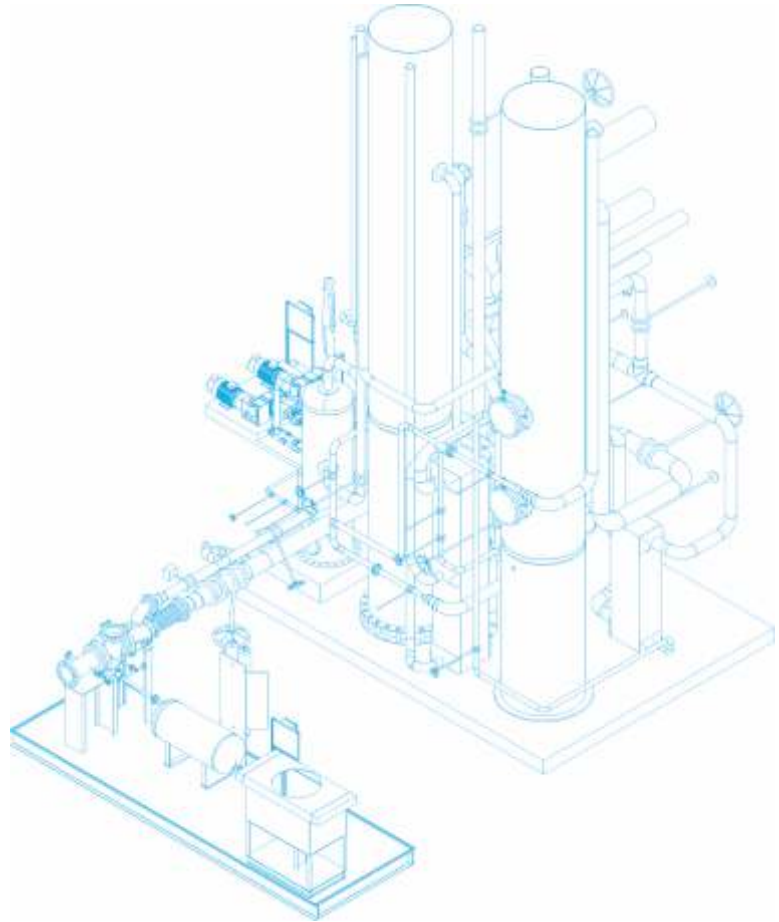
<b>Mission</b>	Unit development
<b>Estimated Capacity</b>	50,000 Nm <sup>3</sup> /h
<b>Location</b>	Volgograd Region, Russia
<b>Customer</b>	Gaznefteservice LLC
<b>Solutions Implemented</b>	Concept design Feasibility study and assessment
<b>Year</b>	2015



# Liquid Helium Extraction Unit

## Yarakta Field

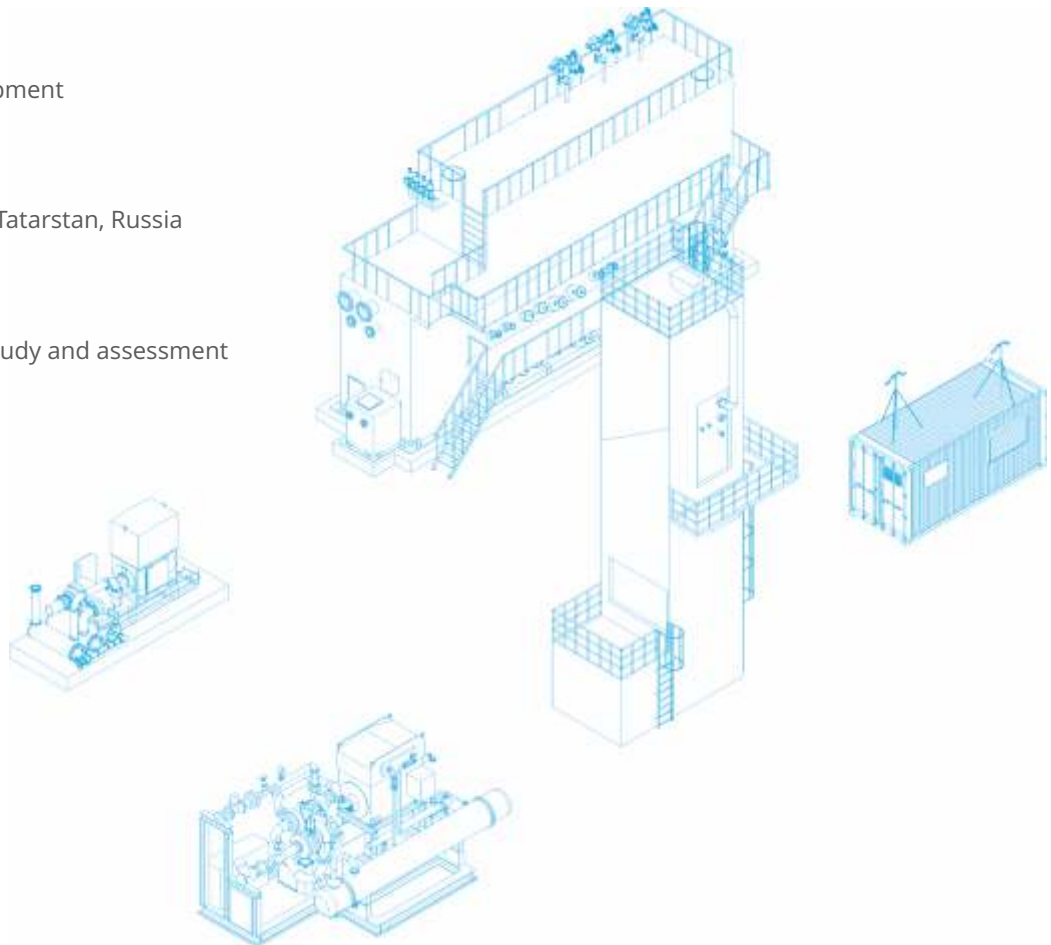
Mission	Unit development
LHe Capacity	800 l/h or 105 kg/h
LHe Purity	99.999%
Location	Irkutsk Region, Russia
Customer	Irkutsk Oil Company LLC
Solutions Implemented	Feasibility study and assessment
Year	2013





# Helium Extraction, Treating and Liquefaction Unit Minnibaevskiy Gas Processing Plant

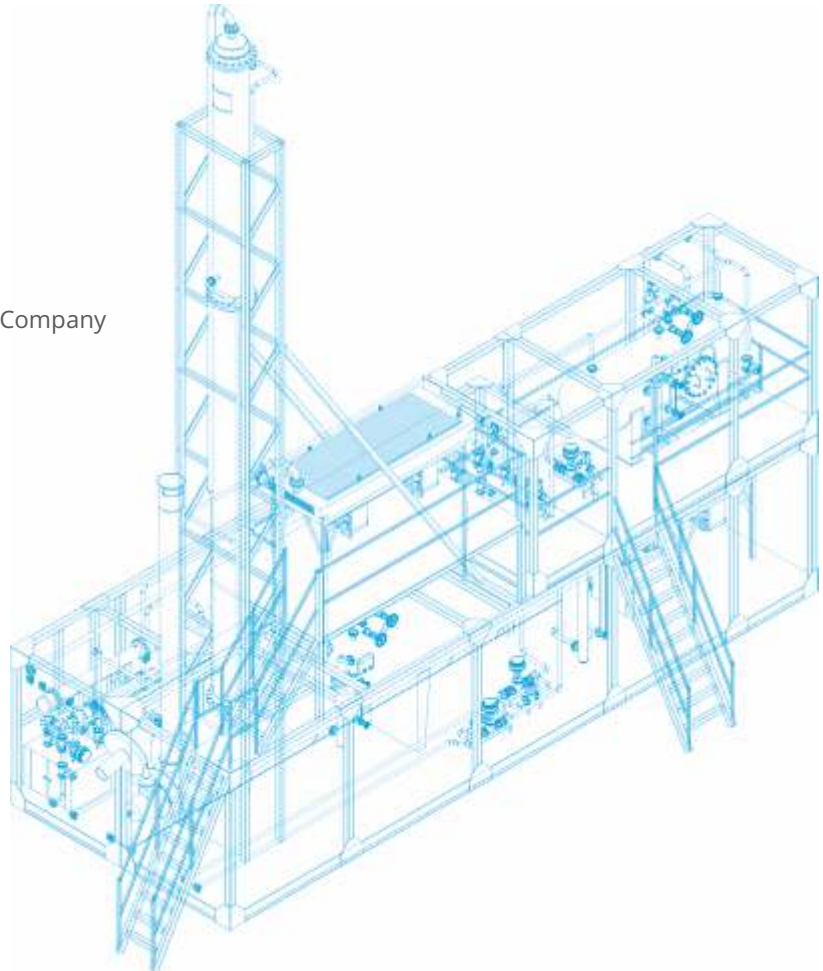
<b>Mission</b>	Unit development
<b>Estimated Capacity</b>	14,500 m <sup>3</sup> /h
<b>Location</b>	Republic of Tatarstan, Russia
<b>Customer</b>	Tatneft PJSC
<b>Solutions Implemented</b>	Feasibility study and assessment
<b>Year</b>	2015



# Methanol Recovery Unit

## Srednevilyuisk Field

<b>Mission</b>	Unit development
<b>Estimated Capacity</b>	1,800 kg/h
<b>Location</b>	Sakha (Yakutia) Republic, Russia
<b>Customer</b>	Yatec JSC, Yakut Fuel and Energy Company
<b>Solutions Implemented</b>	Design development
<b>Year</b>	2015



## MAINTENANCE AND SUPPORT



## Maintenance and Support

We are a team of highly experienced maintenance/service engineers and site supervisors to support our customers across their production facilities of:

- Gas treatment and processing
- Air separation and cryogenic equipment
- Air/gas compressor, pumping equipment

We are very team-driven, highly skilled and qualified specialists with more than 15 years of practical experience. We are licensed and certified by leading equipment manufacturers, and we complete manufacturer's training and pass examination to upgrade our skills in a timely manner.

## Parts Procurement and Delivery

We are an authorized distributor and approved supplier of General Electric (GE), Ingersoll Rand, QB Johnson Manufacturing Inc., and Suzhou Oxygen Plant Co., Ltd. in Russia and across the CIS countries.

We offer reasonable prices, flexible delivery terms, affordable logistic solutions, after-sales service, parts and accessories procurement and delivery.



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